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Application No. 10/656,900
Reply to the Office Action dated January 22, 2007

Docket No.: 573878011US1

AMENDMENTS TO THE CLAIMS

1-70. (Cancelled)

71. (Currently amended) The cordless soldering tool of claim 69 81, wherein, when the electrical switch is opened, electricity is not transmitted to the heating device light.

72. (Currently amended) The cordless soldering tool of claim 69 81, wherein the electrical switch is disposed on a the handheld body of the solder tool for user operation.

73-75. (Cancelled)

76. (Currently amended) The cordless soldering tool according to claim 69 82, wherein the electrical power storage source is a battery.

77-80. (Cancelled)

81. (New) A cordless soldering tool comprising:
a handheld body adapted to house an electrical power storage source;
a detachable solder tip mounted on the handheld body;
a light located on the handheld body, wherein the light is oriented such that the light can illuminate a working surface proximate the detachable solder tip; and
an electrical switch for selectively powering the light without powering the detachable solder tip.

82. (New) The cordless soldering tool of claim 81, further comprising an electrical power storage source.

83. (New) The cordless soldering tool of claim 82, wherein the detachable solder tip comprises first and second electrodes electrically isolated from each other, the first and second electrodes each coupled to the electrical power storage source.

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84. (New) The cordless soldering tool of claim 83, wherein an electrical circuit between the first and second electrodes and the electrical power source is completed upon contact between a conductive or semi-conductive material and the first and second electrodes.

85. (New) The cordless soldering tool of claim 81, wherein the light and the detachable solder tip are electrically connected in parallel with each other and an electrical power storage source.

86. (New) The cordless soldering tool of claim 81, wherein the detachable solder tip has an electrical resistivity of 1,500 micro-Ohm-cm or greater and a density of about 1.5 to 1.75 g/cc.

87. (New) The cordless soldering tool of claim 86, wherein the detachable solder tip has an electrical resistivity of over 3,000 micro-Ohm-cm.

88. (New) The cordless soldering tool of claim 86, wherein the detachable solder tip has a thermal conductivity of less than or equal to 10 BTU/hr-ft-°F.

89. (New) The cordless soldering tool of claim 86, wherein the detachable solder tip includes a flexural strength of at least about 1,500 psi.

90. (New) The cordless soldering tool of claim 89, wherein the detachable solder tip has a thermal conductivity of less than or equal to 10 BTU/hr-ft-°F.

91. (New) The cordless soldering tool of claim 81, wherein the detachable solder tip comprises graphite.

92. (New) A cordless soldering tool comprising:
a handheld body adapted to house an electrical power storage source;
a detachable solder tip mounted on the handheld body;
a light located on the handheld body, wherein the light is oriented such that the light can illuminate a working surface proximate the detachable solder tip; and

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a user-operable switch mounted on the handheld body and electrically connected in series with the light so that the light and the user-operable switch are electrically connected in parallel with respect to the detachable solder tip.